

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) ~~An solar cell module~~ edge face sealing member of a solar cell module for, ~~where solar cell module construction is such that one or more solar cell module bodies are captured within one or more frame bodies,~~ scaling ~~one or more~~ a gap[[s]] between at least ~~one of the~~ solar cell module body or bodies and at least ~~one of the~~ frame body or bodies when the solar cell module body is captured within the frame body,

the edge face sealing member itself, which ~~having an undivided structure and being formed in an integral~~ frame-like shape, is formed along in substantially parallel fashion with respect to one or more ~~an~~ outer shapes of at least ~~one of the~~ solar cell module body or bodies;

the edge face sealing member being is substantially C-shaped in cross section and/or substantially U-shaped in cross section;

~~wherein~~ the edge face sealing member comprises:

~~one or more~~ an upper scaling regions abutting ~~one or more~~ a front surfaces of at least ~~one of the~~ solar cell module body or bodies;

~~one or more~~ a lower scaling region[[s]] abutting ~~one or more~~ a back surface[[s]] of at least ~~one of the~~ solar cell module body or bodies; and

~~one or more~~ a side scaling regions abutting ~~one or more~~ an edge face[[s]] of at least ~~one of the~~ solar cell module body or bodies; ~~wherein~~

~~the upper scaling region, the lower scaling region and the side scaling region are made of a same material and formed in an integral and continuous manner;~~

the upper sealing region and the lower sealing region being disposed so as to open to the outside therefrom at either side from edge portions of the side sealing region;

~~the edge face sealing member having an undivided structure captured within at least one of the frame body or bodies while capturing at least one of the solar cell module body or bodies along substantially an entire edge portion perimeter thereof;~~

~~wherein the upper sealing region, the lower sealing region and the side sealing region make a tight contact with the solar cell module body or bodies when the edge face sealing member having an undivided structure is captured within at least one of the frame body or bodies; and~~

~~when the edge face sealing member is captured by a groove of the frame body, the edge sealing member is deformed in parallel fashion with respect to the inside surface of the groove, the upper sealing region and the lower sealing region being squashed and coming in intimate contact with the front surface and the back surface of the solar cell module body, respectively, the side sealing region coming in intimate contact with the edge face of the solar cell module body, so that the edge face of the solar cell module body is completely sealed by the edge face sealing member;~~

wherein tip portions of the upper sealing region and the lower sealing region are formed in a bent fashion so as to be inclined toward a groove recess, and wherein a distance between ~~said the~~ tip portions is substantially the same as or is less than a thickness of the edge portion of the solar cell module body ~~or bodies;~~ and

~~wherein, there is substantially no gap between the one or more upper and lower sealing regions of the edge face sealing member and the one or more front and back surfaces of at least one of the solar cell module body or bodies, respectively, when the edge face sealing member is~~

~~captured within at least one of the frame body or bodies while capturing at least one of the solar cell module body or bodies along substantially an entire edge portion perimeter thereof wherein~~
when the edge face sealing member is captured within the frame body while the solar cell module body is captured within the edge face sealing member along an entire edge portion perimeter thereof, the upper sealing region, the lower sealing region and the side sealing region are coming into intimate contact with the solar cell module body, and the edge face sealing member seals the entire edge portion perimeter of the solar cell module body.

2. (Canceled)

3. (Currently Amended) ~~An edge face sealing member of a solar cell moduleA solar cell module edge face sealing member~~ according to claim 1 wherein ~~at least one of the lower sealing region or regions~~ is longer than ~~at least one of the upper sealing region or regions~~.

4. (Currently Amended) ~~An edge face sealing member of a solar cell moduleA solar cell module edge face sealing member~~ according to claim 1 wherein:

~~at least one surface of at least one of the upper sealing region or regions and at least one surface of at least one of the lower sealing region or regions~~ face each other; and

~~one or more~~ projections ~~are~~is formed on each of ~~at least two respectively facing surfaces among the upper and lower sealing region surfaces which face each other of the upper sealing region and the lower sealing region.~~

5. (Currently Amended) An edge face sealing member of a solar cell module~~A solar cell module edge face sealing member~~ according to claim 4 wherein ~~at least one of the projection or projections comprises one or more~~an single-rib or multiple-rib regions formed in parallel fashion with respect to ~~one or more~~an perimeter edge portion[[s]] of ~~at least one of the solar cell module body or bodies.~~

6. (Currently Amended) An edge face sealing member of a solar cell module~~A solar cell module edge face sealing member~~ according to claim 4 wherein ~~one or more~~ tip portions of ~~at least one of the lower scaling region or regions and at least one of the upper scaling region or regions~~ are disposed in inclined fashion at respectively facing scaling region surfaces.

7. (Currently Amended) An edge face sealing member of a solar cell module~~A solar cell module edge face sealing member~~ according to claim 1 wherein ~~at least one of the solar cell module body or bodies is of integrally laminated superstrate construction such that the following layers are laminated in order over one or more~~a light-receiving glass surfaces constituting ~~one or more~~a front surface[[s]]:

~~one or more~~a light-receiving-surface scaling resin layers comprising ethylene vinyl acetate;

~~one or more~~a solar cell[[s]];

~~one or more~~a back-surface scaling resin layer[[s]] comprising ethylene vinyl acetate; and

~~one or more~~a weather-resistant back-surface scaling film[[s]].

8. (Currently Amended) An edge face sealing member of a solar cell module~~A solar cell module edge face sealing member~~ according to claim 7 wherein ~~at least one~~^a material making up the edge face sealing member is elastomer resin.

9. (Currently Amended) An edge face sealing member of a solar cell module~~A solar cell module edge face sealing member~~ according to claim 8 wherein the elastomer resin comprises ~~one or more~~^a polypropylenic and/or polystyrenic resins.

10. (Currently Amended) An edge face sealing member of a solar cell module~~A solar cell module edge face sealing member~~ according to claim 9 wherein:
~~at least one of~~^a the polypropylenic elastomer resin ~~or resins~~ is a PP-EPDM copolymer; and
~~at least one of~~^a the polystyrenic elastomer resin ~~or resins~~ is polystyrene - isoprene copolymer.

11. (Currently Amended) An edge face sealing member of a solar cell module~~A solar cell module edge face sealing member~~ according to claim 9 wherein the elastomer resin comprises ~~one or more~~^a additives of porous structure preventing yellowing of ~~at least one of~~^a the scaling resin layer ~~or layers~~.

12. (Currently Amended) An edge face sealing member of a solar cell module~~A solar cell module edge face sealing member~~ according to claim 11 wherein ~~at least one of~~^a the additive ~~or additives~~ is magnesium silicate.

13. (Currently Amended) ~~An edge face sealing member of a solar cell module~~A solar cell module edge face sealing member according to claim 12 wherein ~~at least one of the additive or additives further comprises one or more~~an ultraviolet-resistant agents.

14. (Currently Amended) A solar cell module comprising:

~~one or more~~a solar cell module body~~ies captured within one or more frame bodies, a frame body that captures the solar cell module body, and an edge face sealing member for sealing a gap between the solar cell module body and the frame body,~~ wherein:

~~one or more edge face sealing members, frame-like in shape, are formed in substantially parallel fashion with respect to one or more outer shapes of at least one of the solar cell module body or bodies~~ the edge face sealing member itself, which is an integral frame-like shape, is formed along with an outer shape of the solar cell module body;

the edge face sealing member ~~has an undivided structure and~~ is substantially C-shaped in cross section and/or substantially U-shaped in cross section;

the edge face sealing member comprises:

~~one or more~~an upper scaling regions abutting ~~one or more~~a front surface[[s]] of at least ~~one of the solar cell module body or bodies;~~

~~one or more~~a lower scaling region[[s]] abutting ~~one or more~~a back surface[[s]] of at least ~~one of the solar cell module body or bodies; and~~

~~one or more~~a side scaling regions abutting ~~one or more~~an edge face[[s]] of at least one of the solar cell module body ~~or bodies; wherein~~

~~the upper scaling region, the lower scaling region and the side scaling region are made of a same material and formed in an integral and continuous manner;~~

the upper sealing region and the lower sealing region being disposed so as to open to the outside therefrom at either side from edge portions of the side sealing region;

at least one of the edge face sealing member or members having an undivided structure is captured within at least one of the frame body or bodies while capturing at least one of the solar cell module body or bodies along substantially the entire edge portion perimeter thereof;

wherein the upper sealing region, the lower sealing region and the side sealing region make a tight contact with the solar cell module body or bodies when the edge face sealing member having an undivided structure is captured within at least one of the frame body or bodies; and

when the edge face sealing member is captured by a groove of the frame body, the edge sealing member is deformed in parallel fashion with respect to the inside surface of the groove, the upper sealing region and the lower sealing region being squashed and coming in intimate contact with the front surface and the back surface of the solar cell module body, respectively, the side sealing region coming in intimate contact with the edge face of the solar cell module body, so that the edge face of the solar cell module body is completely sealed by the edge face sealing member;

wherein tip portions of the upper sealing region and the lower sealing region are formed in a bent fashion so as to be inclined toward a groove recess, and wherein a distance between the said tip portions is substantially the same as or is somewhat less than a thickness of the edge portion of the solar cell module body or bodies; and

wherein, there is substantially no gap between the one or more upper and lower sealing regions of the edge face sealing member and the one or more front and back surfaces of at least one of the solar cell module body or bodies, respectively, when the edge face sealing member is

captured within at least one of the frame body or bodies while capturing at least one of the solar cell module body or bodies along substantially an entire edge portion perimeter thereof wherein when the edge face sealing member is captured within the frame body while the solar cell module body is captured within the edge face sealing member along an entire edge portion perimeter thereof, the upper sealing region, the lower sealing region and the side sealing region are coming into intimate contact with the solar cell module body, and the edge face sealing member seals the entire edge portion perimeter of the solar cell module body.

15. (Currently Amended) A solar cell module according to claim 14 wherein ~~at least one of the solar cell module body or bodies~~ is of integrally laminated superstrate construction such that laminated in order over ~~one or more~~ a light-receiving glass surfaces constituting ~~one or more~~ a front surface[[s]] there ~~are~~ is:

~~one or more~~ a light-receiving-surface sealing resin layer[[s]] comprising ethylene vinyl acetate;

~~one or more~~ a solar cell[[s]];

~~one or more~~ a back-surface sealing resin layer[[s]] comprising ethylene vinyl acetate; and

~~one or more~~ a weather-resistant back-surface sealing film[[s]].

16. (Currently Amended) An edge face sealing member of a solar cell module A solar cell module edge face sealing member of claim 1, wherein the edge portions of the side sealing region are curved.

17. (Currently Amended) An edge face sealing member of a solar cell module~~A solar cell module edge face sealing member~~ of claim 1, wherein the edge portions of the side sealing region are cut diagonally so as to produce chamfered surfaces.

18. (Currently Amended) The solar cell module edge face sealing member structure of claim 1, comprising at least one projection extending inwardly from an interior surface of each of the upper sealing region and the lower sealing region~~sidewalls~~, and wherein the respective tip portions extend further inwardly than ~~do~~ the respective projections when the solar cell module body and edge face sealing member are in a state where they have not yet been provided in the frame body.

19. (Cancelled)

20. (New) An edge face sealing member of a solar cell module according to claim 1, wherein when the edge face sealing member is captured within the frame body while the solar cell module body is captured within the edge face sealing member along an entire edge portion perimeter thereof, an entire surface of the upper sealing region, the lower sealing region and the side sealing region which faces the solar cell module body is coming into intimate contact with the entire edge portion perimeter of the solar cell module body.